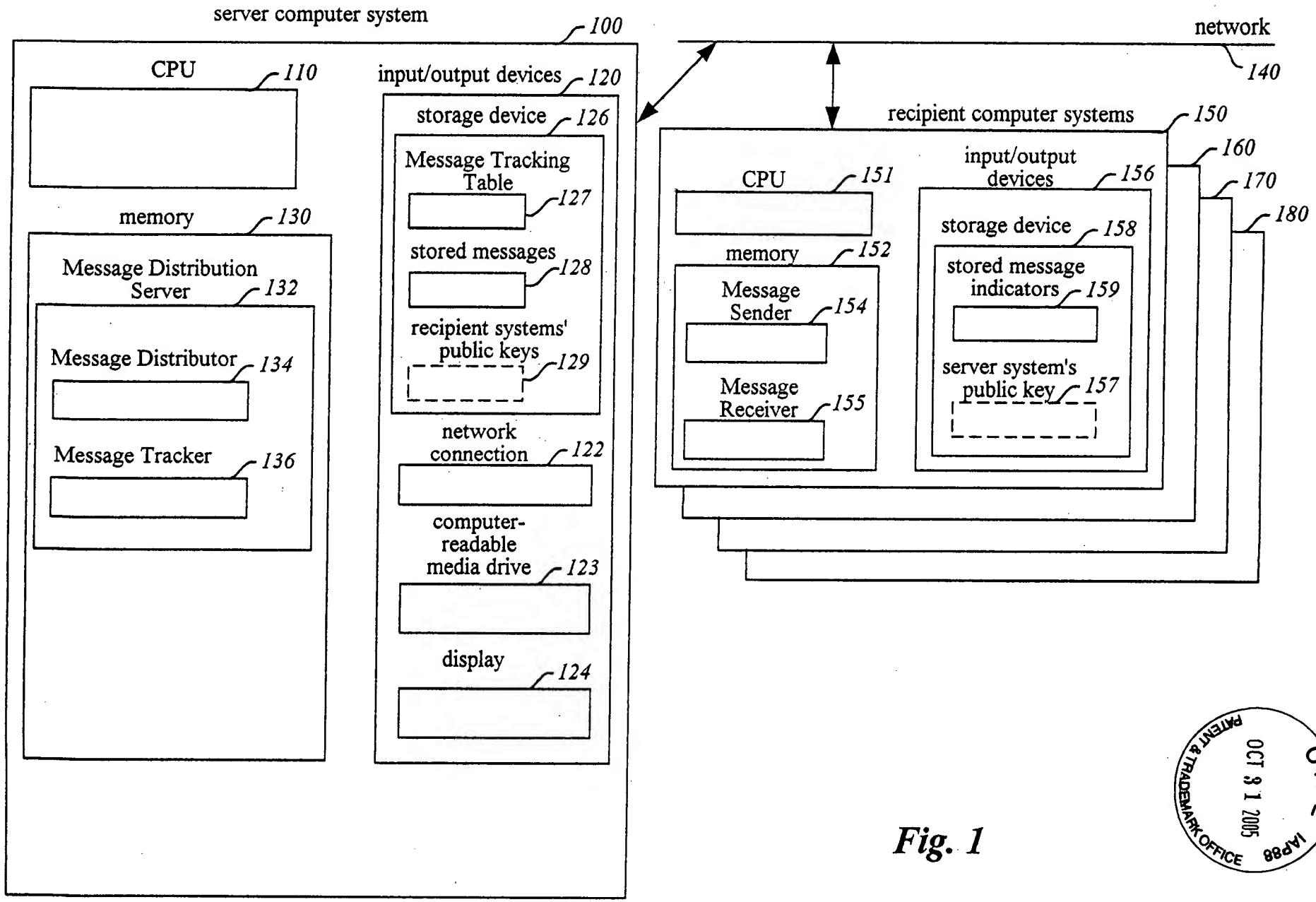

Fig. 1

PATENT & TRADEMARK OFFICE
OCT 31 2005
OIPE
IAP88

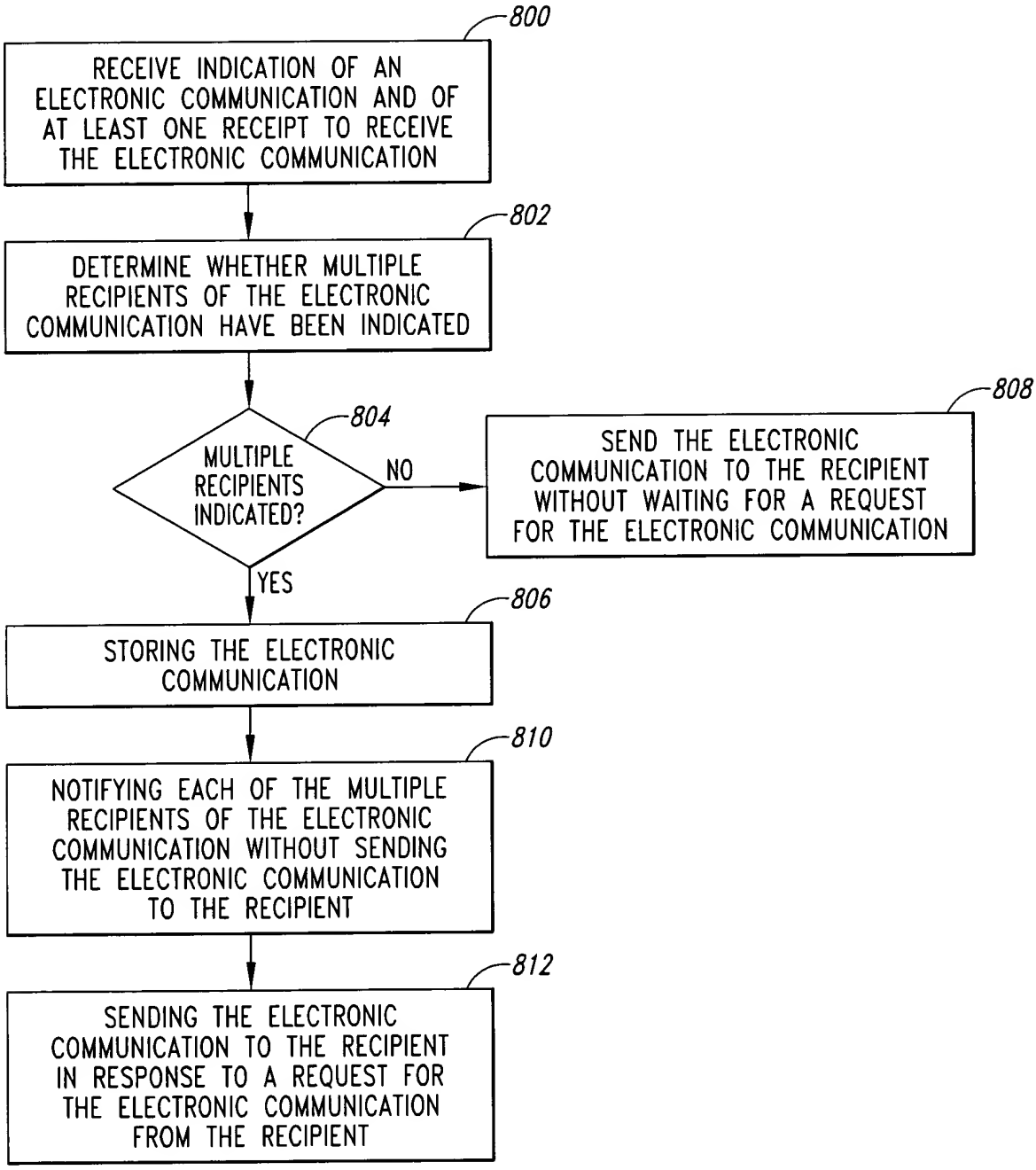
800
RECEIVE INDICATION OF AN ELECTRONIC COMMUNICATION AND OF AT LEAST ONE RECEIPT TO RECEIVE THE ELECTRONIC COMMUNICATION
802
DETERMINE WHETHER MULTIPLE RECIPIENTS OF THE ELECTRONIC COMMUNICATION HAVE BEEN INDICATED
804
MULTIPLE RECIPIENTS INDICATED?
NO
808
SEND THE ELECTRONIC COMMUNICATION TO THE RECIPIENT WITHOUT WAITING FOR A REQUEST FOR THE ELECTRONIC COMMUNICATION
YES
806
STORING THE ELECTRONIC COMMUNICATION
810
NOTIFYING EACH OF THE MULTIPLE RECIPIENTS OF THE ELECTRONIC COMMUNICATION WITHOUT SENDING THE ELECTRONIC COMMUNICATION TO THE RECIPIENT
812
SENDING THE ELECTRONIC COMMUNICATION TO THE RECIPIENT IN RESPONSE TO A REQUEST FOR THE ELECTRONIC COMMUNICATION FROM THE RECIPIENT

Fig. 1A

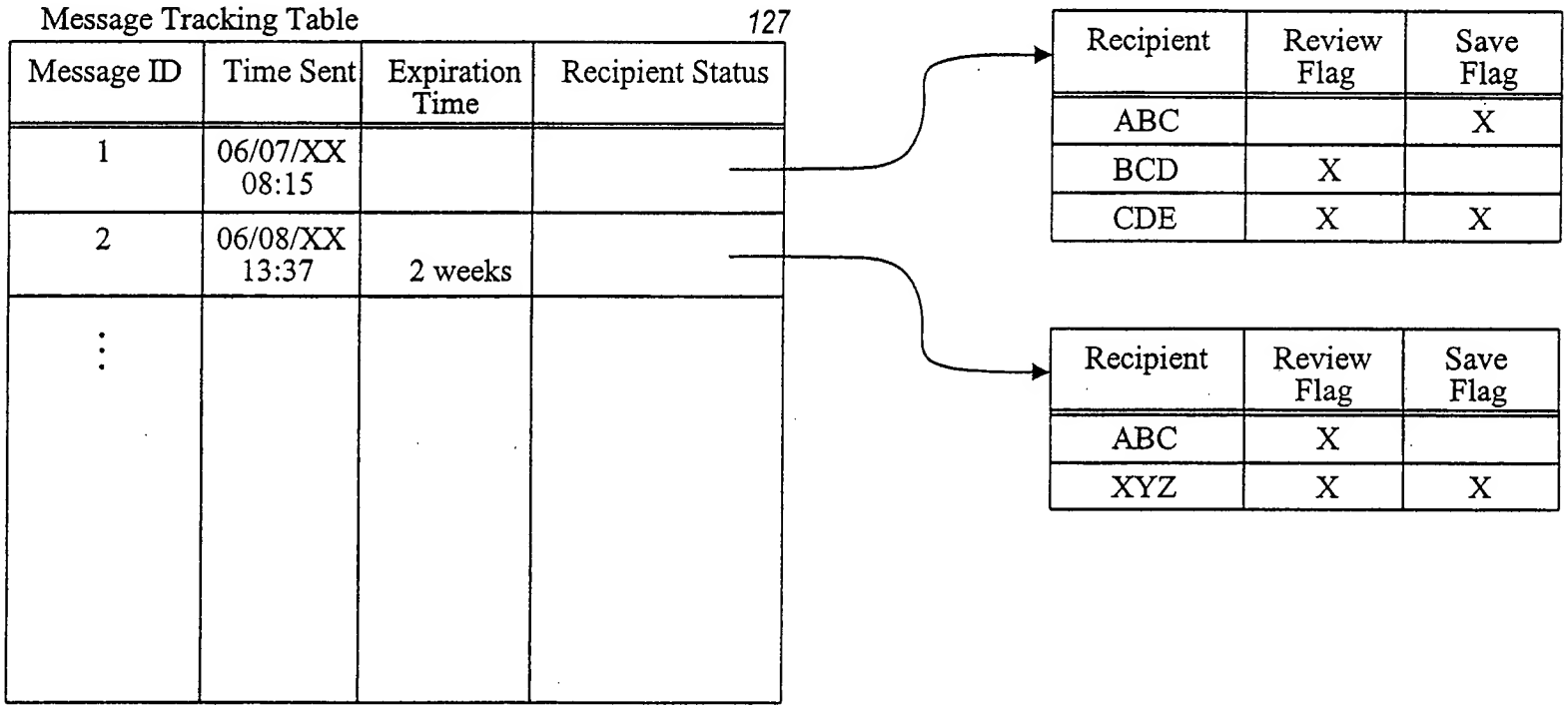
Message Tracking Table
127
Message ID
Time Sent
Expiration Time
Recipient Status
1
06/07/XX 08:15
2
06/08/XX 13:37
2 weeks
Recipient
Review Flag
Save Flag
ABC
X
BCD
X
CDE
X
X
Recipient
Review Flag
Save Flag
ABC
X
XYZ
X
X

Fig. 2

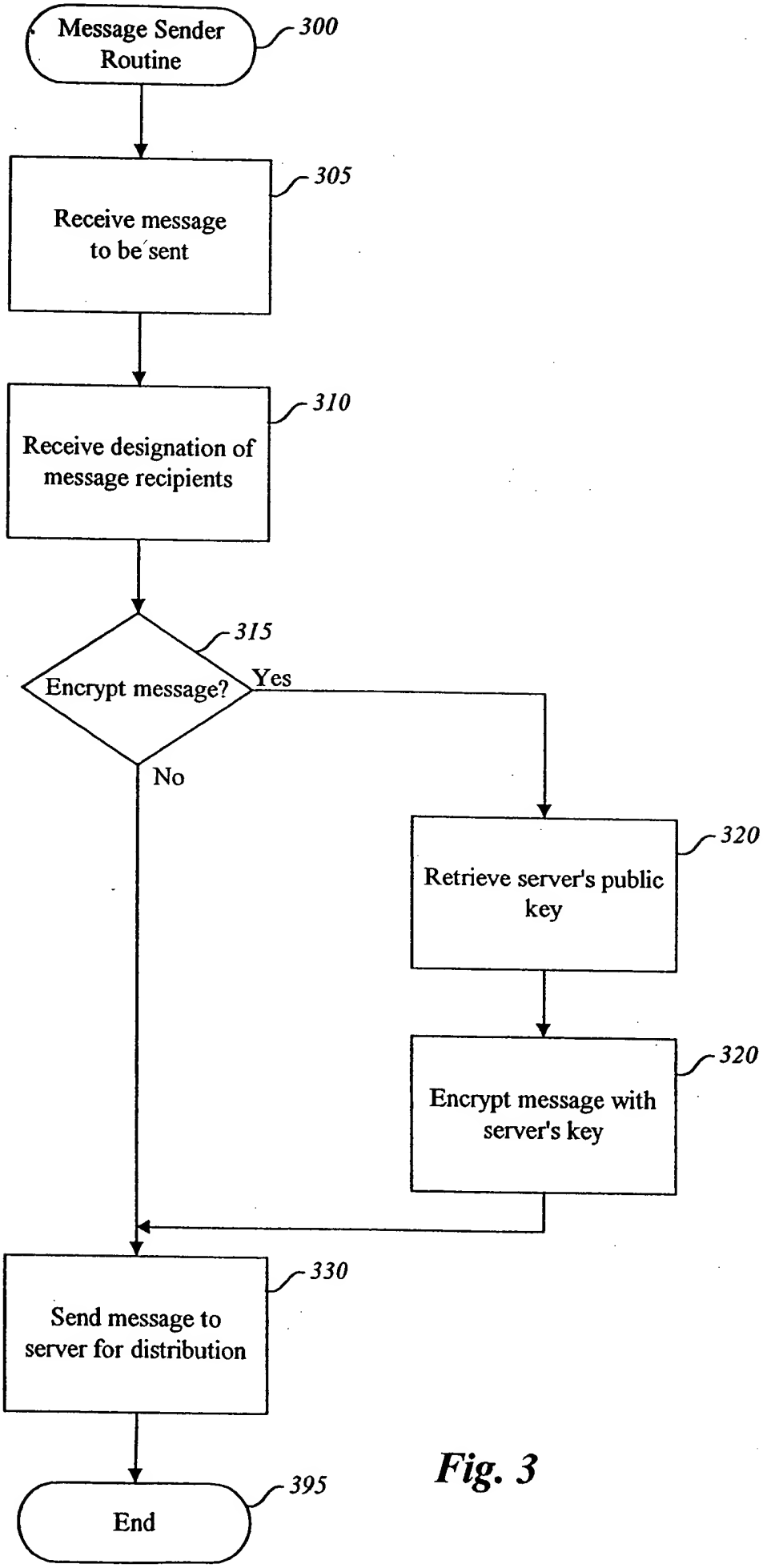
Message Sender Routine
300
Receive message to be sent
305
Receive designation of message recipients
310
Encrypt message?
315
Yes
No
Retrieve server's public key
320
Encrypt message with server's key
320
Send message to server for distribution
330
End
395

Fig. 3

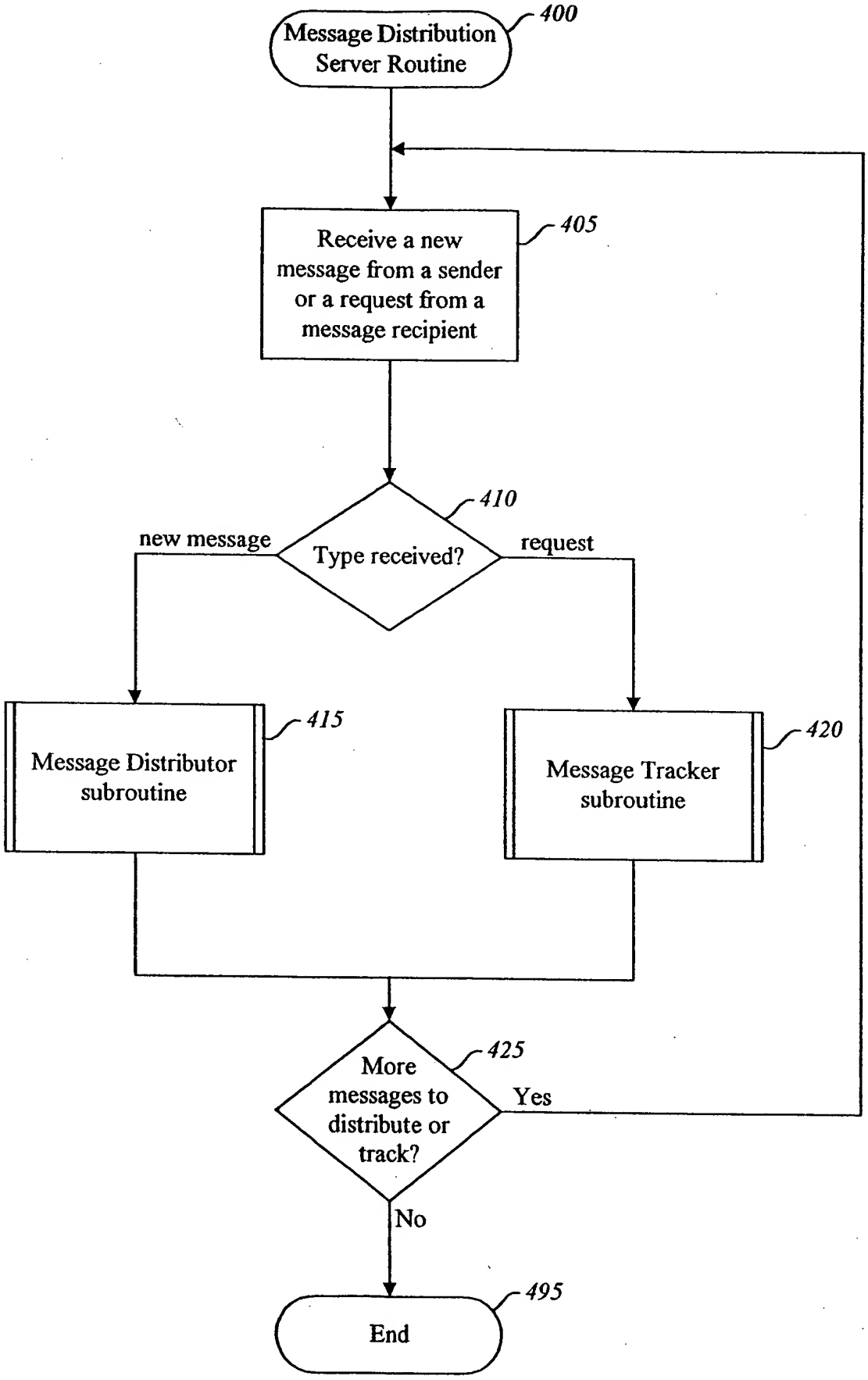
Message Distribution Server Routine
400
Receive a new message from a sender or a request from a message recipient
405
Type received?
410
new message
request
Message Distributor subroutine
415
Message Tracker subroutine
420
More messages to distribute or track?
425
Yes
No
End
495

Fig. 4

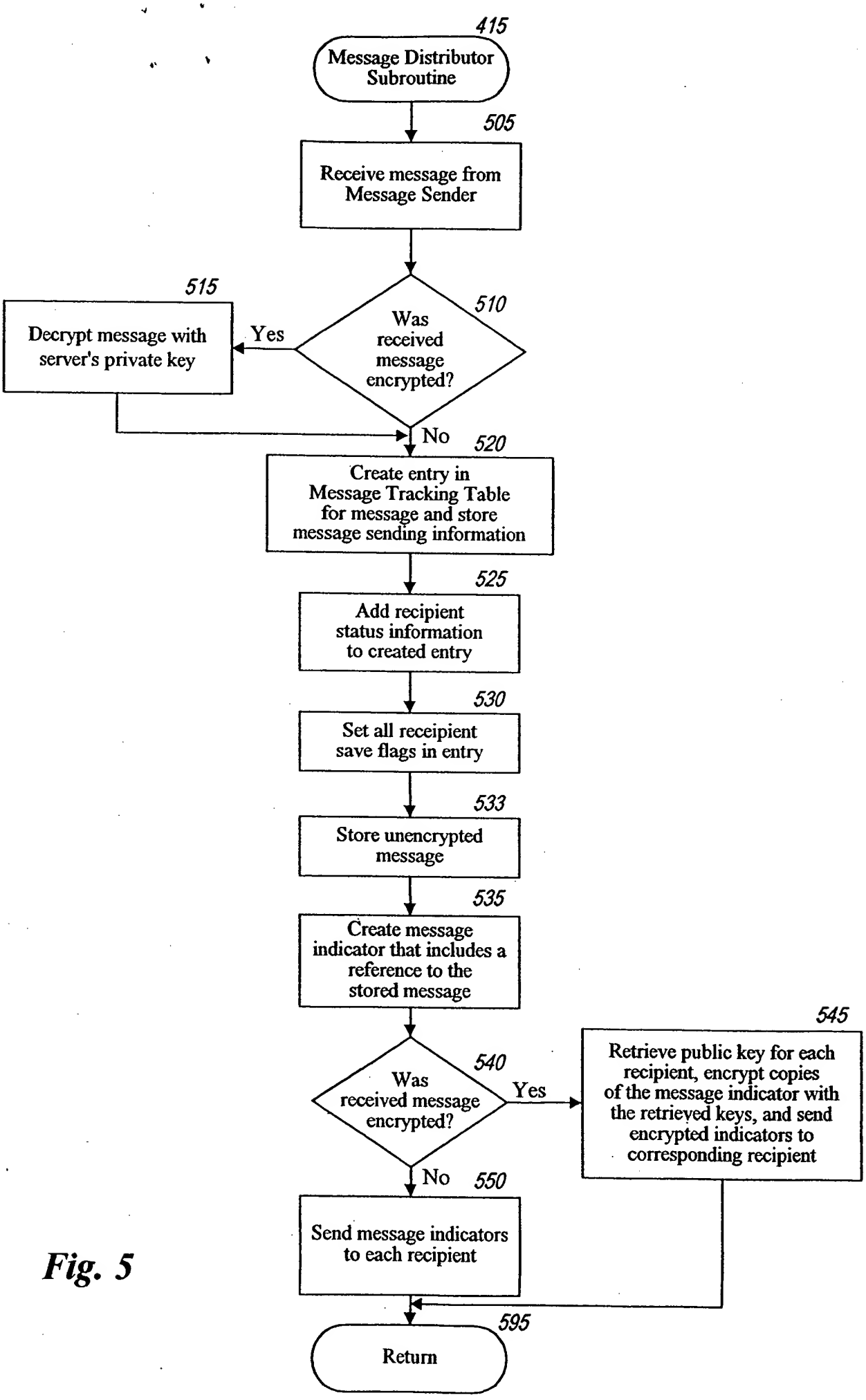
415
Message Distributor Subroutine
505
Receive message from Message Sender
510
Was received message encrypted?
Yes
515
Decrypt message with server's private key
No
520
Create entry in Message Tracking Table for message and store message sending information
525
Add recipient status information to created entry
530
Set all receipient save flags in entry
533
Store unencrypted message
535
Create message indicator that includes a reference to the stored message
540
Was received message encrypted?
Yes
545
Retrieve public key for each recipient, encrypt copies of the message indicator with the retrieved keys, and send encrypted indicators to corresponding recipient
No
550
Send message indicators to each recipient
595
Return

Fig. 5